

Measured

MV

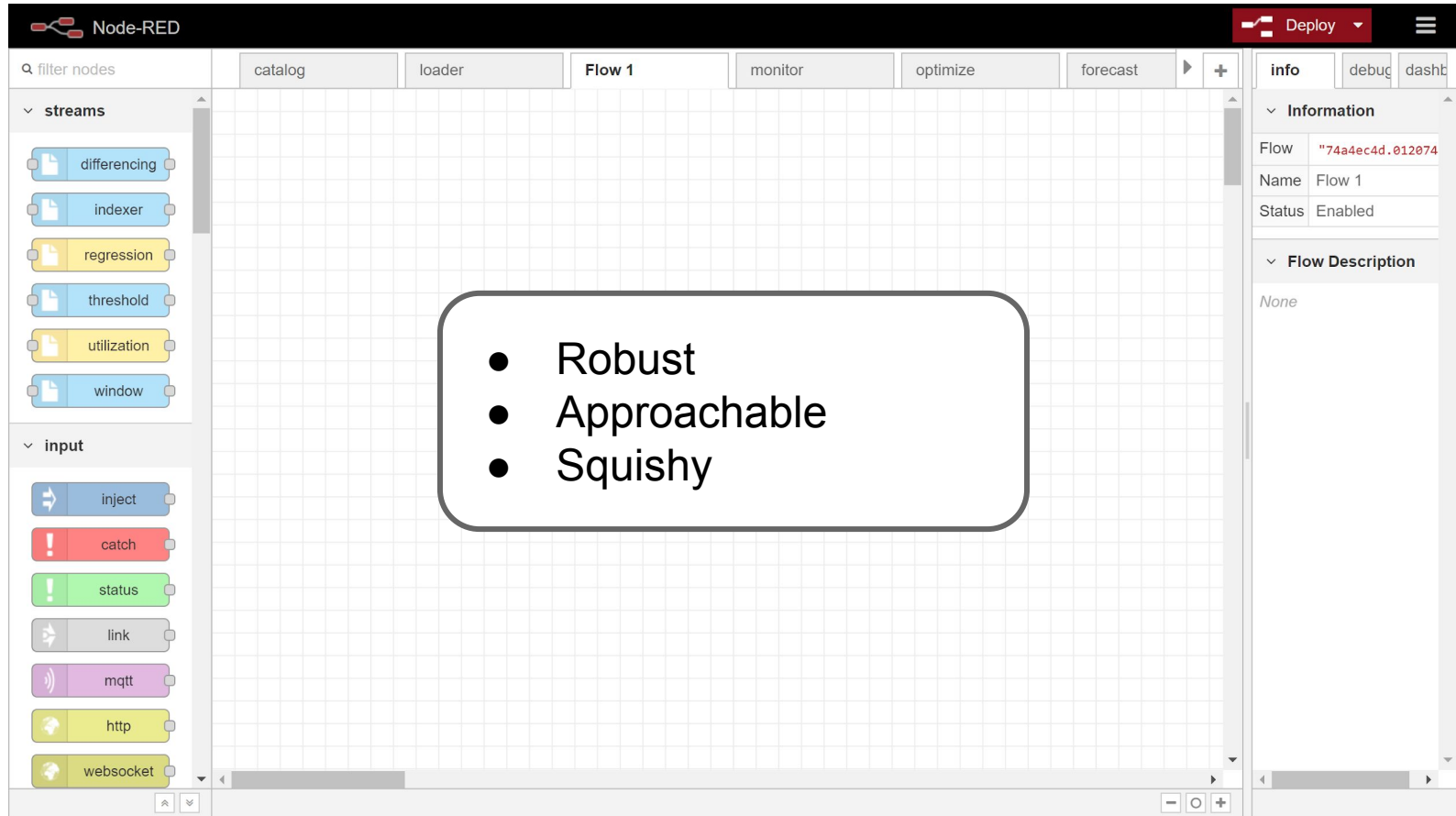
Utilization

Exploring the Play-Doh Nature of Node-red

<https://github.com/dennisdunn/stream-analytics-model>

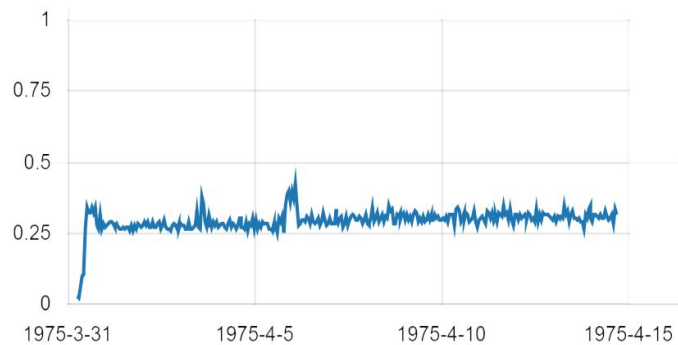
<https://github.com/dennisdunn/play-doh-nature>

1/28/70 8:23 PM

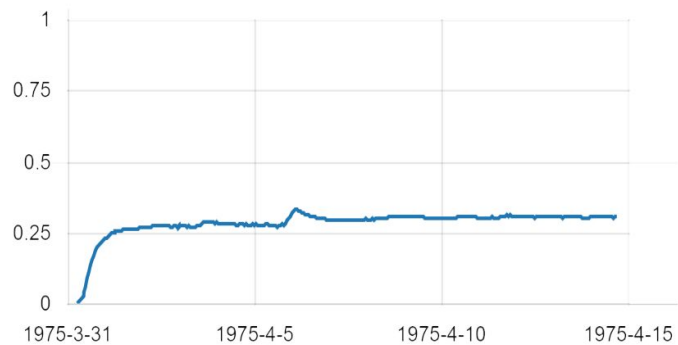


-the play-doh nature-

MV



Low Pass



-monitoring-

Node-RED

Deploy

filter nodes

catalog

loader

Flow 1

monitor

optimize

forecast

+

streams

differencing

indexer

regression

threshold

utilization

window

input

inject

catch

status

link

mqtt

http

websocket

Information

Flow

"74a4ec4d.012074"

Name

Flow 1

Status

Enabled

Flow Description

None

Insert Demo Here

-monitoring-

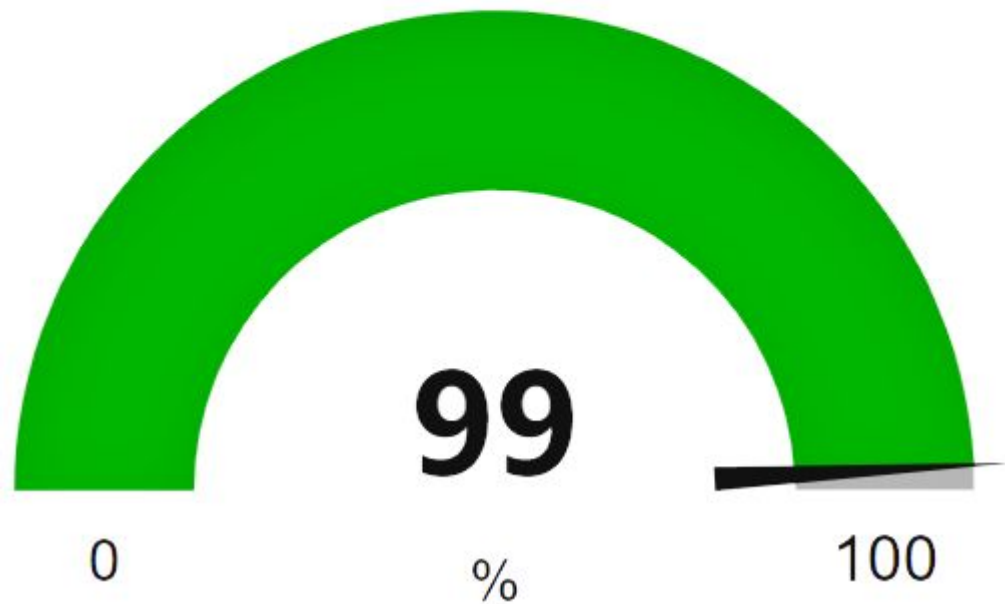
The screenshot shows the Node-RED web interface. At the top, there's a black header with the Node-RED logo and a 'Deploy' button. Below the header, a navigation bar contains tabs for 'filter nodes', 'catalog', 'loader', 'Flow 1', 'monitor', 'optimize', 'forecast', and a play button. The left sidebar is divided into two sections: 'streams' and 'input'. The 'streams' section lists nodes like 'difference', 'index', 'regression', 'threshold', 'utilization', and 'wind'. The 'input' section lists nodes like 'inject', 'catch', 'status', 'link', 'mqtt', 'http', and 'websocket'. The main workspace is a large grid. On the right, a panel shows 'Information' for 'Flow 1' with details like 'Flow ID: 74a4ec4d.012074', 'Name: Flow 1', and 'Status: Enabled'. Below this is a 'Flow Description' section which currently shows 'None'.

- Messages flow from node to node.
- Nodes can send messages to multiple destinations

1508 node-red-contrib packages on npmjs.com

-monitoring-

Utilization



-diagnostics-

Node-RED

Deploy

filter nodes

catalog

loader

Flow 1

monitor

optimize

forecast

+

streams

differencing

indexer

regression

threshold

utilization

window

input

inject

catch

status

link

mqtt

http

websocket

Insert Demo Here

info

debug

dashb

Information

Flow

"74a4ec4d.012074"

Name

Flow 1

Status

Enabled

Flow Description

None

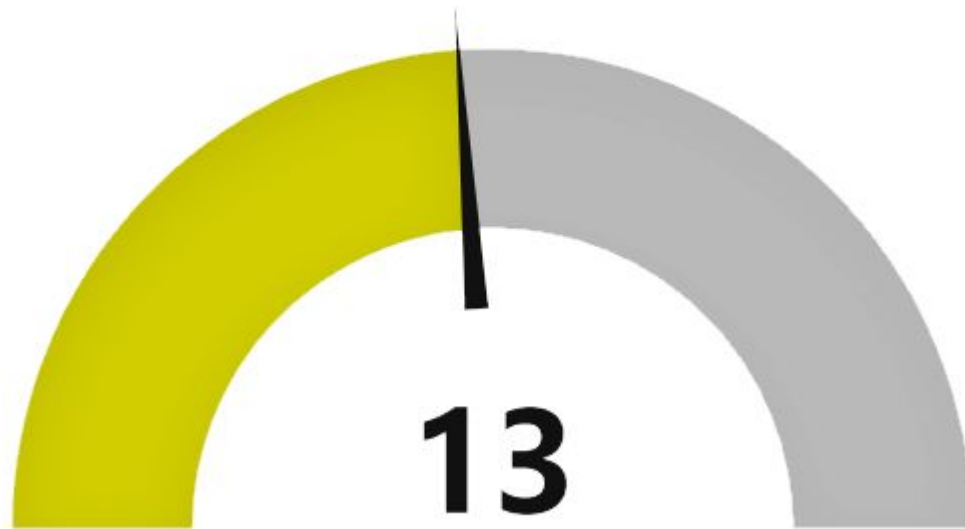
-diagnostics-

The screenshot shows the Node-RED web interface. At the top, there's a black header with the Node-RED logo and a 'Deploy' button. Below the header, a navigation bar contains tabs for 'catalog', 'loader', 'Flow 1' (selected), 'monitor', 'optimize', and 'forecast'. On the left, a sidebar lists node categories: 'streams' (differencing, indexer, regression, threshold, utilization, window) and 'input' (inject, catch, status, link, mqtt, http, websocket). On the right, a sidebar shows 'Information' (Flow ID: 74a4ec4d.012074, Name: Flow 1, Status: Enabled) and 'Flow Description' (None). The main workspace is a grid where a large, rounded rectangle contains the following text:

- User defined nodes are powerful.
- User defined nodes are not hard.

-diagnostics-

TUF



0

13

Days

30

-forecasting-

Node-RED

Deploy

filter nodes

catalog

loader

Flow 1

monitor

optimize

forecast

+

streams

differencing

indexer

regression

threshold

utilization

window

input

inject

catch

status

link

mqtt

http

websocket

Information

Flow"74a4ec4d.012074

NameFlow 1

StatusEnabled

Flow Description

None

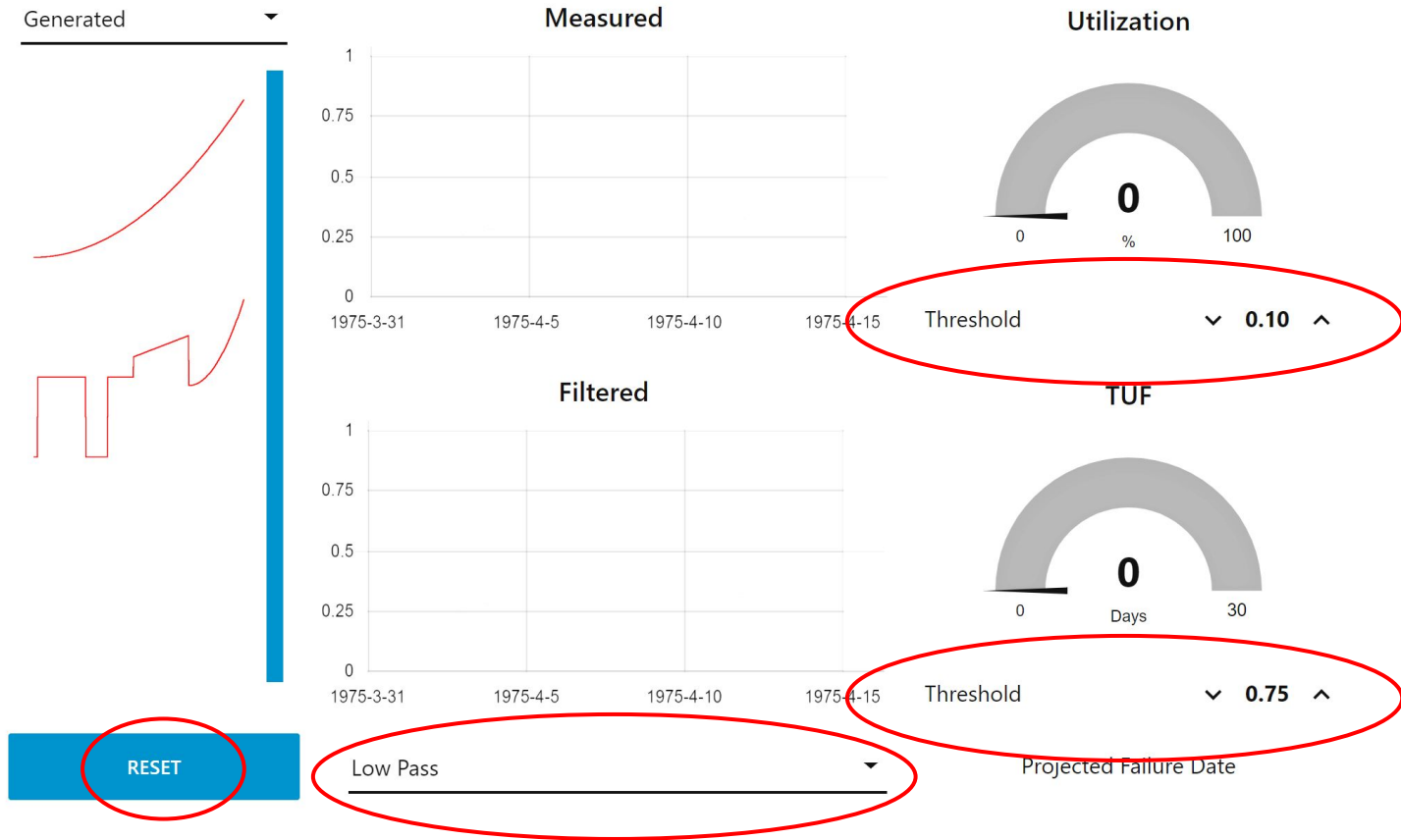
Insert Demo Here

-forecasting-

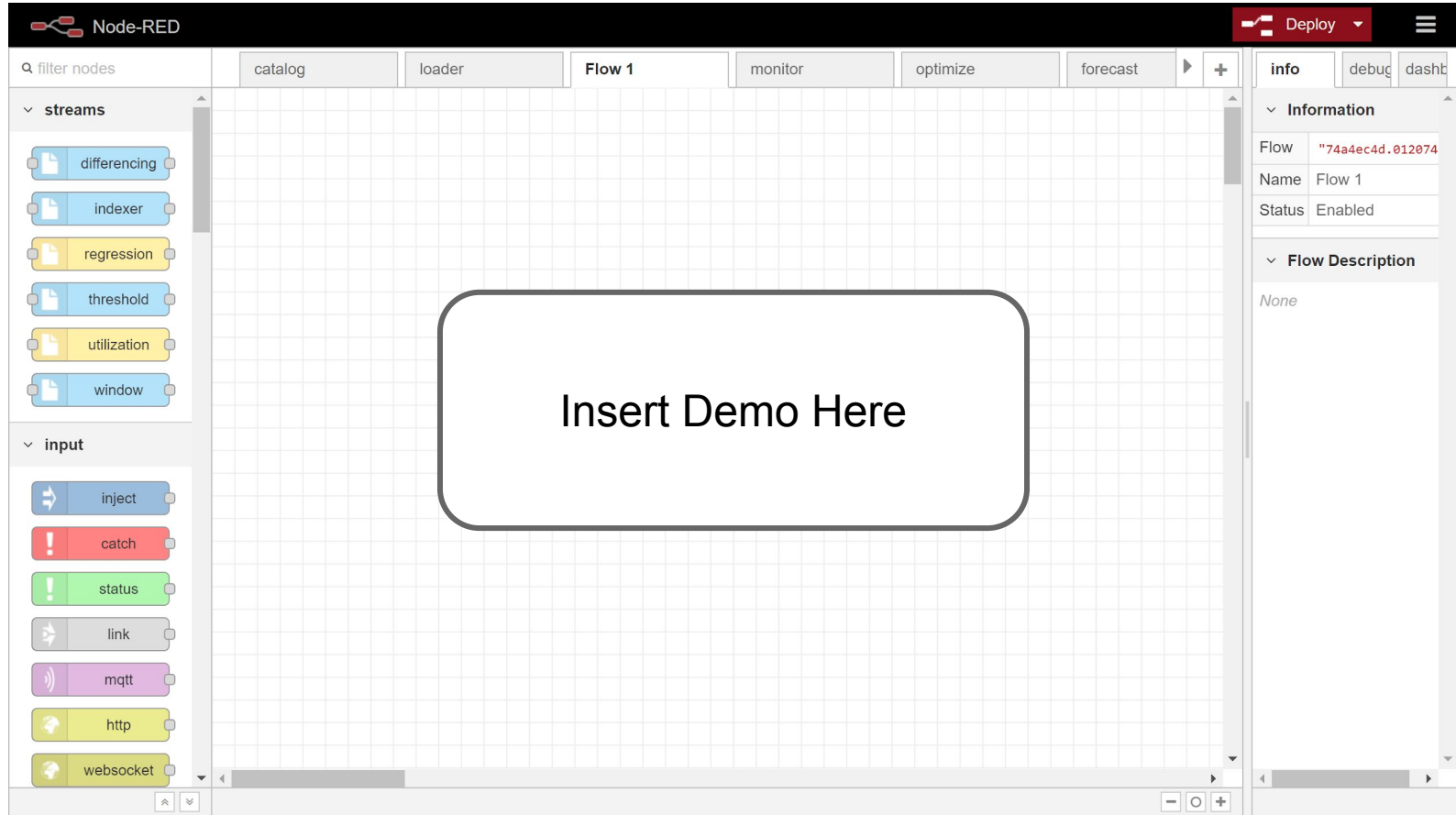
The screenshot shows the Node-RED web interface. At the top, there's a header with the Node-RED logo and a 'Deploy' button. Below the header, there's a navigation bar with tabs: 'catalog', 'loader', 'Flow 1' (selected), 'monitor', 'optimize', 'forecast', and a play button. On the left, there's a sidebar with 'filter nodes' and two expandable sections: 'streams' and 'input'. The 'streams' section contains nodes: 'differencing', 'indexer', 'regression', 'threshold', 'utilization', and 'window'. The 'input' section contains nodes: 'inject', 'catch', 'status', 'link', 'mqtt', 'http', and 'websocket'. The main workspace is a grid where a large, rounded rectangle contains three bullet points. On the right, there's a sidebar with 'info', 'debug', and 'dashboard' tabs. The 'info' tab is active, showing 'Information' and 'Flow Description' sections. The 'Information' section shows 'Flow' as '74a4ec4d.012074', 'Name' as 'Flow 1', and 'Status' as 'Enabled'. The 'Flow Description' section shows 'None'.

- The regression node uses an npm package to calculate the regression formula.
- The forecast node is a function node, it runs some code for each message.
- The forecast node is sending messages out two different ports.

-forecasting-



-ui components-



-ui components-

Node-RED

filter nodes

catalog loader Flow 1 monitor optimize forecast

streams

- differencing
- indexer
- regression
- threshold
- utilization
- window

input

- inject
- catch
- status
- link
- mqtt
- http
- websocket

- The dashboard package provides basic UI components
- UI components generate messages
- Global, flow, node context
- Message routing
- User-defined widgets with angular/angular-material

Deploy

info debug dashboard

Information

Flow	"74a4ec4d.012074"
Name	Flow 1
Status	Enabled

Flow Description

None

-ui components-

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<https://github.com/dennisdunn/play-doh-nature>

<https://github.com/dennisdunn/stream-analytics-model>

TL;DR; Node-red has the Play-Doh nature.

